INSTALLATION GUIDE

AXIS Q1614–E Network Camera

ENGLISH

Legal Considerations

Video and audio surveillance can be regulated by laws that vary from country to country. Check the laws in your local region before using this product for surveillance purposes.

This product includes one (1) H.264 decoder license and one (1) AAC decoder license. To purchase further licenses, contact your reseller.

Liability

Every care has been taken in the preparation of this document. Please inform your local Axis office of any inaccuracies or omissions. Axis Communications AB cannot be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals without prior notice. Axis Communications AB makes no warranty of any kind with regard to the material contained within this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Axis Communications AB shall not be liable nor responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material. This product is only to be used for its intended purpose.

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Axis AB has intellectual property rights relating to technology embodied in the product described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the patents listed at *http://www.axis.com/patent.htm* and one or more additional patents or pending patent applications in the US and other countries.

This product contains licensed third-party software. See the menu item "About" in the product's user interface for more information.

This product contains source code copyright Apple Computer, Inc., under the terms of Apple Public Source License 2.0 (see *http://www.opensource.apple.com/apsl*). The source code is available from *http://developer.apple.com/darwin/projects/bonjour/*

Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

Trademark Acknowledgments

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Support

Should you require any technical assistance, please contact your Axis reseller. If your questions cannot be answered immediately, your reseller will forward your queries through the appropriate channels to ensure a rapid response. If you are connected to the Internet, you can:

- download user documentation and software updates
- find answers to resolved problems in the FAQ database. Search by product, category, or phrase
- report problems to Axis support staff by logging in to your private support area
- chat with Axis support staff (selected countries only)
- visit Axis Support at *www.axis.com/techsup/*

Learn More!

Visit Axis learning center *www.axis.com/academy/* for useful trainings, webinars, tutorials and guides.

Regulatory Information

Europe

CE This product complies with the applicable CE marking directives and harmonized standards:

- Electromagnetic Compatibility (EMC) Directive 2004/108/EC. See *Electromagnetic Compatibility (EMC), on page 2*.
- Low Voltage (LVD) Directive 2006/95/EC. See *Safety, on page 3*.
- Restrictions of Hazardous Substances (RoHS) Directive 2011/65/EU. See *Disposal and Recycling, on page 3*.

A copy of the original declaration of conformity may be obtained from Axis Communications AB. See *Contact Information, on page 3*.

Electromagnetic Compatibility (EMC)

This equipment has been designed and tested to fulfill applicable standards for:

- Radio frequency emission when installed according to the instructions and used in its intended environment.
- Immunity to electrical and electromagnetic phenomena when installed according to the instructions and used in its intended environment.

USA

Using an unshielded network cable (UTP) – This equipment has been tested using an unshielded network cable (UTP) and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Using a shielded network cable (STP) – This equipment has also been tested using a shielded network cable (STP) and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or

television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canada
This Class B digital apparatus complies with Canadian ICES-003.

Europe
This digital equipment fulfills the requirements for RF emission according to the Class B limit of EN 55022.

This product fulfills the requirements for emissions and immunity according to EN 50121-4 and IEC 62236-4 railway applications.

This product fulfills the requirements for immunity according to EN 61000-6-1 residential, commercial and light-industrial environments.

This product fulfills the requirements for immunity according to EN 61000-6-2 industrial environments.

This product fulfills the requirements for immunity according to EN 55024 office and commercial environments

Australia/New Zealand
This digital equipment fulfills the requirements for RF emission according to the Class B limit of AS/NZS CISPR 22.

Japan
この装置は、クラスB 情報技術装置です。この装置は、家庭環境で使用することを目 的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、 受信障害を引き起こすことがあります。 取扱説明書に従って正しい取り扱いをして下さい。

Korea
이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Safety
This product complies with IEC/EN/UL 60950-1 and IEC/EN/UL 60950-22, Safety of Information Technology Equipment.

Disposal and Recycling
When this product has reached the end of its useful life, dispose of it according to local raws and regulations. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. In accordance with local legislation, penalties may be applicable for incorrect disposal of this waste.

Europe

This symbol means that the product shall not be disposed of together with household or commercial waste. Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) is applicable in the European Union member states. To prevent potential harm to human health and the environment, the product must be disposed of in an approved and environmentally safe recycling process. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. Businesses should contact the product supplier for information about how to dispose of this product correctly.

This product complies with the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

China
This product complies with the requirements of the legislative act Administration on the Control of Pollution Caused by Electronic Information Products (ACPEIP).

Contact Information
Axis Communications AB
Emdalavägen 14
223 69 Lund
Sweden

Tel: +46 46 272 18 00
Fax: +46 46 13 61 30

www.axis.com

Safety Information

Read through this Installation Guide carefully before installing the product. Keep the Installation Guide for future reference.

Hazard Levels

⚠DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a situation which, if not avoided, could result in damage to property.

Other Message Levels

Important	Indicates significant information which is essential for the product to function correctly.
Note	Indicates useful information which helps in getting the most out of the product.

Safety Instructions

⚠WARNING

- The Axis product shall be installed by a trained professional.

NOTICE

- The Axis product shall be used in compliance with local laws and regulations.
- Store the Axis product in a dry and ventilated environment.
- Avoid exposing the Axis product to shocks or heavy pressure.
- Do not install the product on unstable brackets, surfaces or walls.
- Use only applicable tools when installing the Axis product. Excessive force could cause damage to the product.
- Do not use chemicals, caustic agents, or aerosol cleaners. Use a clean cloth dampened with pure water for cleaning.
- Use only accessories that comply with technical specification of the product. These can be provided by Axis or a third party.
- Use only spare parts provided by or recommended by Axis.
- Do not attempt to repair the product by yourself. Contact Axis support or your Axis reseller for service matters

Transportation

NOTICE

- When transporting the Axis product, use the original packaging or equivalent to prevent damage to the product.

Battery

The Axis product uses a 3.0 V CR2032 lithium battery as the power supply for its internal real-time clock (RTC). Under normal conditions this battery will last for a minimum of five years.

Low battery power affects the operation of the RTC, causing it to reset at every power-up. A log message will appear when the battery needs replacing.

The battery should not be replaced unless required, but if the battery does need replacing, contact Axis support at *www.axis.com/techsup/* for assistance.

⚠WARNING

- Risk of explosion if the battery is incorrectly replaced.
- Replace only with an identical battery or a battery which is recommended by Axis.
- Dispose of used batteries according to local regulations or the battery manufacturer's instructions.

Installation Guide

This Installation Guide provides instructions for installing AXIS Q1614-E Network Camera on your network. For other aspects of using the product, see the User Manual available at *www.axis.com*

Installation Steps

1. Make sure the package contents, tools and other materials necessary for the installation are in order. See *page 9*.
2. Study the hardware overview. See *page 10*.
3. Study the specifications. See *page 16*.
4. Install the hardware. See *page 18*.
5. Access the product. See *page 20*.
6. Set the focus. See *page 20*.

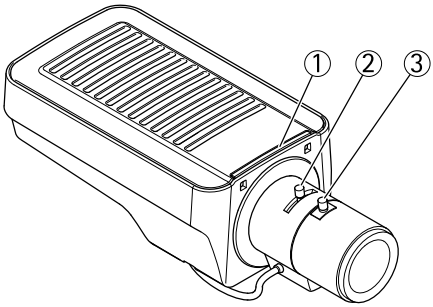
Package Contents

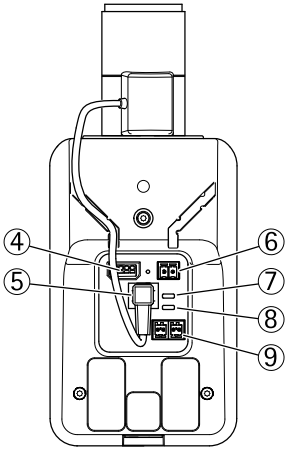
- AXIS Q1614–E Network Camera
- 4–pin I/O connector block for connecting external devices
- Wall bracket
- Torx screwdriver T20
- Installation and Management Software CD
- Printed materials
  - Installation Guide (this document)
  - Extra serial number label (2x)
  - AVHS Authentication key

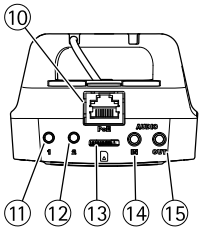
Optional Accessories

For information about available accessories, including power accessories and outdoor housings see *www.axis.com*

Hardware Overview

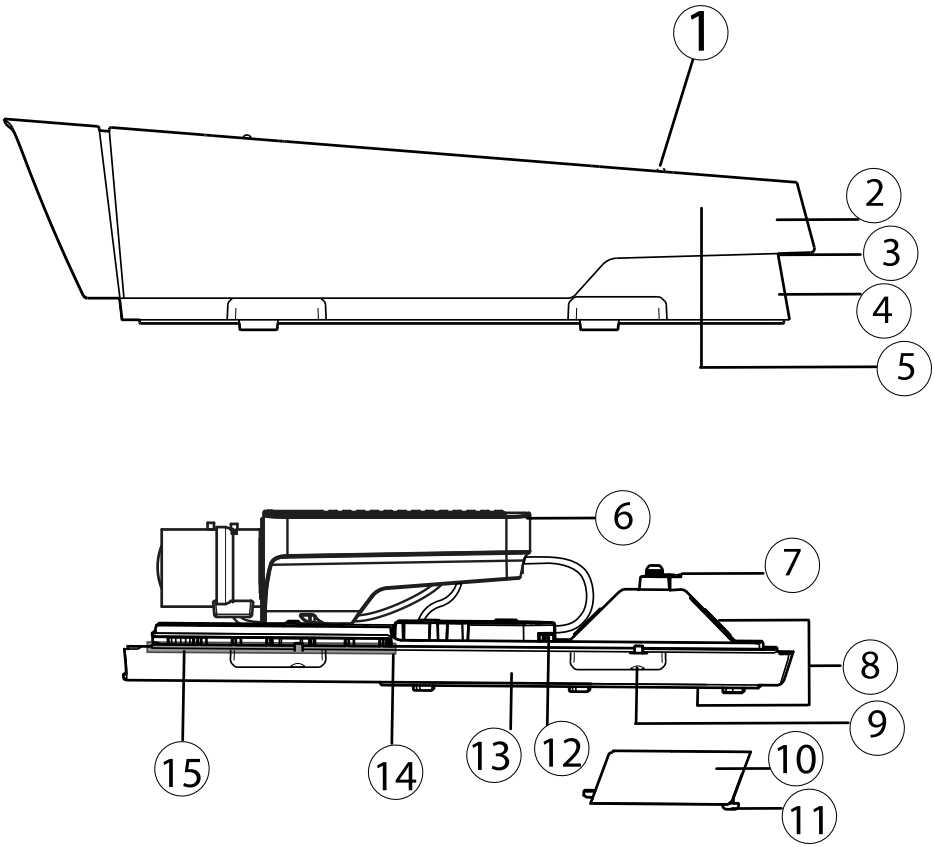






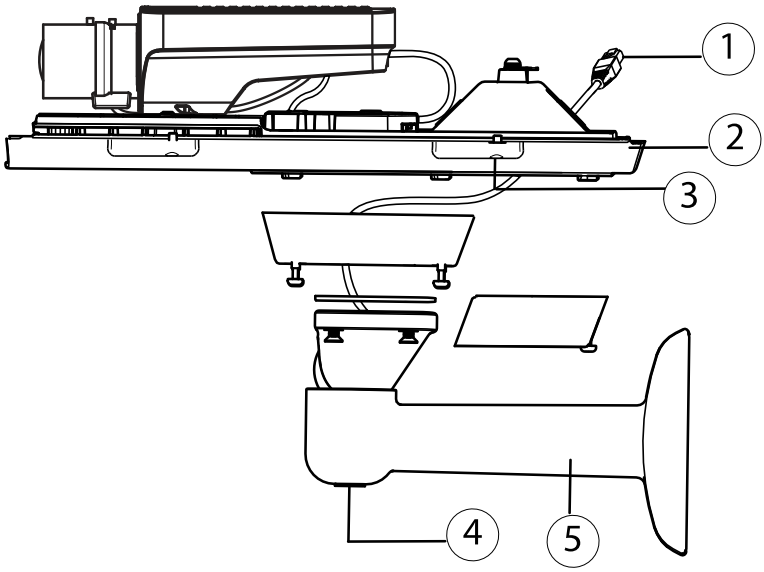
1. *Status LED indicator*
2. *Zoom puller*
3. *Focus puller*
4. *I/O connector*
5. *Iris connector*
6. *Power connector*
7. *Power LED indicator*
8. *Network LED indicator*
9. *RS485/RS422 connector*
10. *Network connector (PoE)*

11. *Control button (1)*
12. *Function button (2)*
13. *microSD Card slot*
14. *Audio in*
15. *Audio out*



1. *Sunshield adjustment screw (2x)*
2. *Sunshield*
3. *Product number (P/N) & Serial number (S/N). The serial number may be required during installation.*
4. *Top Cover*
5. *De-humidifying membrane. Do not remove!*
6. *Network camera*
7. *Safety wire tab*

8. *Cable holes with cable gland*
9. *Bottom cover screws (4x)*
10. *Cable cover*
11. *Cable cover screws (2x)*
12. *Network connector*
13. *Bottom cover*
14. *Heater.* ***Caution!*** *May be hot.*
15. *Heater.* ***Caution!*** *May be hot.*



1. *Network cable (route through wall bracket)*
2. *Bottom cover*
3. *Bottom cover screws (4x)*
4. *Bracket adjustment screw*
5. *Wall bracket*

LED Indicators

LED	Color	Indication
Net-work	Green	Steady for connection to a 100 MBit/s network. Flashes for network activity.
	Amber	Steady for connection to a 10 MBit/s network. Flashes for network activity.
	Unlit	No network connection.
Status	Green	Steady green for normal operation.
	Amber	Steady during startup and when restoring settings.
	Red	Slow flash for failed upgrade.
Power	Green	Normal operation.
	Amber	Flashes green/amber during firmware upgrade.

Note

- The Status LED can be configured to be unlit during normal operation. To configure, go to **Setup > System Options > Ports & Devices > LED**. See the online help for more information.
- The Status LED can be configured to flash while an event is active.
- The Status LED can be configured to flash for identifying the unit. Go to **Setup > System Options > Maintenance** .
- The Power LED can be configured to be unlit during normal operation. To configure, go to **Setup > System Options > Ports & Devices > LED**. See the online help for more information.
- The Network LED can be disabled so that it does not flash when there is network traffic. To configure, go to **Setup > System Options > Ports & Devices > LED**. See the online help for more information.

LED	Color	Indication
Housing (fan and heater)	Green	Normal operation.
	Flashing green	Single flash: Heater error Double flash: Fan error Triple flash: General error Alarm events will be triggered through the camera's input port. Contact your Axis reseller for information about spare parts and troubleshooting.

Note

This status LED referred to in the table above is located in the housing.

Status LED Behavior for Focus Assistant

Color	Indication
Green	Focus Assistant is enabled The lens is optimally adjusted
Amber	The camera has been moved, or an object has been inserted in front of the lens. Exit and restart the Focus Assistant. The lens is less optimally adjusted.
Red	The camera has been moved, or an object has been inserted in front of the lens. Exit and restart the Focus Assistant. The lens is poorly adjusted.

Status LED Behavior for Levelling Camera

For information on the Function button used for levelling the camera, see *Connectors*.

Color	Buzzer	Camera position
Fixed green	Continuous beep	Level
Flashing green	Fast interval	Almost level
Flashing orange	Medium interval	Not level
Flashing red	Slow interval	Far from level

Buzzer Signal while Levelling Camera

Buzzer	Camera position
Fast interval	Almost level
Medium interval	Not level
Slow interval	Far from level

Connectors

For specifications and operating conditions, see *page 16*.

Network connector – RJ45 Ethernet connector. Supports Power over Ethernet (PoE).

NOTICE

Due to local regulations or the environmental and electrical conditions in which the product is to be used, a shielded network cable (STP) may be appropriate or required. Any network cables that are routed outdoors or in demanding electrical environments shall be shielded (STP) and intended for their specific use. Make sure that the network switch is properly grounded. For information about regulatory requirements, see *Regulatory Information, on page 2*.

Audio in (pink) – 3.5 mm input for a mono microphone, or a line-in mono signal (left channel is used from a stereo signal).

Audio out (green) – 3.5 mm output for audio (line level) that can be connected to a public address (PA) system or an active speaker with a built-in amplifier. A stereo connector must be used for audio out.

SD card slot – A standard or high-capacity microSD card (not included) can be used for local recording with removable storage.

NOTICE

To prevent corruption of recordings, the SD card should be unmounted before removal. To unmount, go to **Setup > System Options > Storage > SD Card** and click **Unmount**.

Control button – The control button is used for:

- Resetting the product to factory default settings. See *page 22*.
- Connecting to an AXIS Video Hosting System service or AXIS Internet Dynamic DNS Service. For more information about these services, see the User Manual.

Function button – The Function button is used as:

- **Levelling assistant** : This function helps to ensure the camera is level. Press the button for more than 2 seconds to start the levelling assistant and press again to turn off the buzzer. The status LED (see *page 14*) and buzzer signal (see *page 14*) assist levelling of the camera. When the buzzer beeps continuously the camera is levelled.
- **Focus assistant**: This function is used for enabling the Focus Assistant. To enable the focus assistant press and very quickly release the button. For more information see *page 21*.

I/O terminal connector – Use in applications for e.g. motion detection, event triggering, time lapse recording and alarm notifications. In addition to an auxiliary power and a GND pin, the I/O terminal connector provides the interface to:

- **Digital output** – For connecting external devices such as relays and LEDs. Connected devices can be activated by the VAPIX® Application Programming Interface, output buttons on the Live View page or by an Action Rule. The

output will show as active (shown under **System Options > Ports & Devices**) if the alarm device is activated.

- **Digital input** – An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active (shown under **System Options > Ports & Devices**).

Note

The I/O connector is connected to the housing (fan/heater) on delivery, and will trigger an input port event to indicate a fan or heater error when activated. See for information about events.

RS485/RS422 connector – Two 2-pin terminal blocks for RS485/RS422 serial interface used to control auxiliary equipment, e.g. PTZ devices.

Specifications

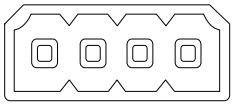
Product	Temperature	Humidity
AXIS Q1614–E	–30 °C to 50 °C (–22 °F to 122 °F) with PoE; down to –40 °C (– 40 °F with High PoE	20-85% RH (non-condensing)

Connectors

I/O terminal connector

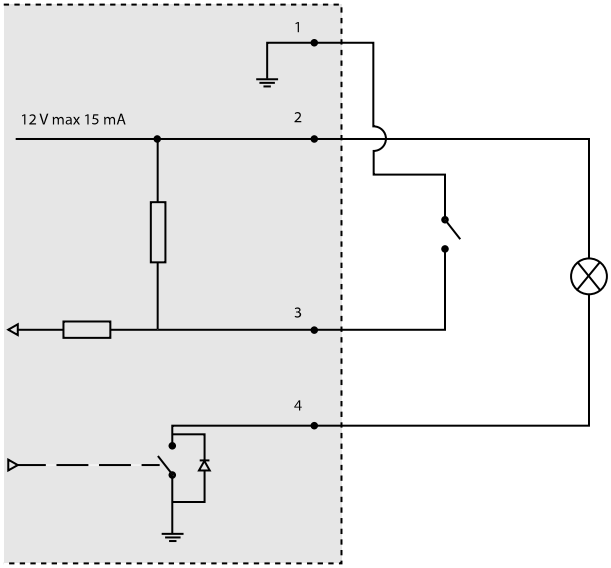
4–pin terminal block for:

- Digital Input
- Digital Output
- Auxiliary power and ground (GND)



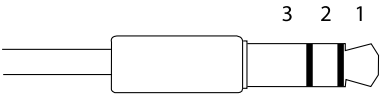
Function	Pin	Notes	Specifications
GND	1	Ground	
12V DC Power	2	Can be used to power auxiliary equipment. Note: This pin can only be used as power out.	Max load = 15 mA

Digital Input	3	Connect to GND to activate, or leave floating (unconnected) to deactivate.	0 to +30 V DC
Digital Output	4	Internal connection to ground when activated, floating (unconnected) when deactivated. If used with an inductive load, e.g. a relay, a diode must be connected in parallel with the load, for protection against voltage transients.	Max load =100 mA Max voltage = +30 V DC



Audio connector

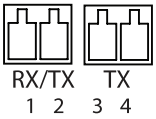
3.5 mm audio connectors (stereo)



	Audio Input	Audio Output
1 Tip	Balanced Microphone Hot (+) In/Unbalance Microphone In/Line In	Line out (mono)
2 Ring	Balanced Microphone Cold (-) In	
3 Sleeve	Ground	Ground

RS485/422 connector

Two 2-pin terminal blocks for RS485/RS422 serial interface. The serial port can be configured to support:



- Two-wire RS485 half duplex
- Four-wire RS485 full duplex
- Two-wire RS422 simplex
- Four-wire RS422 full duplex point to point communication

Function	Pin	Notes
RS485/RS422 RX/TX A	1	(RX) For full duplex RS485/RS422 (RX/TX) For half duplex RS485
RS485/RS422 RX/TX B	2	
RS485/RS422 TX A	3	(TX) For full duplex RS485/RS422
RS485/RS422 TX B	4	

Install the Hardware

Do the following to install the wall bracket:

Note

- The weight of the camera is 3525 g (7.7 lb). Check that the material is strong enough to support this weight.
- Using any other than the provided cable gland may cause water to seep in and damage the product.
- Always use a shielded network cable (STP) intended for outdoor use between the Axis product and the end point and ensure that the end point is properly grounded. Installations of Axis products using a shielded network cable (STP) and a properly grounded end point have been tested to comply with industry immunity standard levels such as surge protection. Any other installation method will void the warranty and leave the unit at a risk.
- An optional cable with a diameter of 4.0 mm - 5.5 mm should be routed through a separate cable gland. See *Hardware Overview, on page 10*.

1. Use the supplied drill template to prepare a wall or pole for installation of the wall bracket.
2. Route the network cable through the wall bracket, and through the bracket adapter. Leave approximately 30 cm (11.8") of cable for connecting to the camera.
3. Install the wall bracket on a wall, ceiling, or pole using screws and plugs appropriate for the material (e.g. wood, metal, sheet rock, stone).

Do the following to route the network and other (optional) cables:

1. Loosen the cable cover screws; detach the cable cover from the bottom cover.
2. Remove the cap, the plug and the gasket from the cable gland to be used.
3. Route the network cable through the cap.
4. Slide the network cable through the slit in the gasket.
5. Route the network cable through the cable gland.
6. Press the gasket into the cable gland and screw the cap on firmly.

Do the following to attach the camera to the wall bracket

1. Place the camera with the bottom cover on the wall bracket and tighten the bracket screws.
2. Replace the cable cover and tighten the screws.
3. Connect the cables. See *Connect the Cables, on page 20*.
4. Loosen the bracket adjustment screw to focus the camera; focus the camera according to the instructions under *Adjust Focus, on page 20*.
5. Also see *Access the Product, on page 20* to access the video stream.
6. Attach the safety wire in the top cover to the tab in the bottom cover. See image under *Hardware Overview, on page 10*.

7. Optionally insert an SD memory card (not included) into the SDHC (Secure Digital High Capacity) card slot. A standard or high capacity SD card is required to store images locally in the camera.

Connect the Cables

1. Optionally connect external input/output devices. See *Connectors, on page 16*.
2. Connect the network cable to the network connector in the housing.

NOTICE

Due to local regulations or the environmental and electrical conditions in which the product is to be used, a shielded network cable (STP) may be appropriate or required. Any network cables that are routed outdoors or in demanding electrical environments shall be shielded (STP) and intended for their specific use.

Access the Product

Use the tools provided on the Installation and Management Software CD to assign an IP address, set the password and access the video stream. This information is also available from the support pages on *www.axis.com/techsup/*

Adjust Focus

To adjust the zoom and focus follow these instructions:

Note

- Set focus as precisely as possible with the focus puller or Focus Assistant before starting automatic fine tuning. Using the focus puller normally gives the best result.
- The iris should always be opened to its maximum while focusing. This gives the smallest depth of field and thus the best conditions for correct focusing.

1. Open the product's home page and go to **Setup** > **Basic Setup** > **Focus**.
2. Under the **Basic** tab, click **Open iris**. If the button is inactive the iris is already open.
3. If focus has been set before, click **Reset** to reset the back focus.
4. Loosen the zoom and focus pullers (see *Hardware Overview, on page 10*) on the lens by turning them counter-clockwise. Move the pullers to set zoom and focus and check the quality of the image in the image window. If the camera is mounted so that one cannot look at the image and move the pullers at the same time, use the Focus Assistant instead. See *Focus Assistant, on page 21*.
5. Re-tighten the zoom and focus pullers.
6. On the Focus page, click **Fine-tune focus automatically** and wait until automatic fine tuning is completed.
7. Click **Enable iris**. If the button is inactive the iris is already enabled.

8. If needed, make further adjustments under the **Advanced** tab. See the online help for more information.

Focus Assistant

Note

- The view in front of the camera should not be changed during focus adjustment (steps 5 and 6). If the camera is moved, or if a finger or other object is placed in front of the lens, steps 3 - 7 will have to be repeated.
- If movements in front of the camera cannot be avoided, the Focus Assistant should not be used.
- If the camera is mounted so that the Function button cannot be accessed, you can still use the Focus Assistant. Follow the instructions above but mount the camera after step 4, pressing the Function button instead and skip step 7.

To focus your network camera using the Focus Assistant, follow steps 1 - 3 on *page 20* before you start with the steps below. See *Hardware Overview, on page 10*.

1. Mount or place the camera so that it cannot be moved.
2. Loosen the zoom puller by turning it counter-clockwise. Move the puller to set the zoom level. Re-tighten the zoom puller.
3. Set the camera to its extreme distant-focus position by loosening the focus puller and turning the lens fully clockwise.
4. Press and quickly release the Function button. When the Status LED flashes green, the Focus Assistant is enabled.

   If the Status LED flashes either red or amber before you are able to adjust the lens, skip to step 7 to exit the Focus Assistant and repeat steps 3 - 7. See the notes above. See *Status LED Behavior for Focus Assistant, on page 14*.
5. Gently turn the lens counter-clockwise until it stops.
6. Turn the lens slowly clockwise until the status indicator flashes green or amber (not red).
7. Retighten the focus puller.
8. Open the **Live View** page in the web browser and check the quality of the image.
9. Continue with steps 6 - 8 on *page 20*.

Replacing the lens

It is possible to use optional lenses for the Axis product.

To replace the lens:

1. Disconnect the iris cable.
2. Unscrew the standard lens.

3. Attach and screw on the new lens.

Reset to Factory Default Settings

Important

Reset to factory default should be used with caution. A reset to factory default will reset all settings, including the IP address, to the factory default values.

To reset the product to the factory default settings:

1. Disconnect power from the product.
2. Press and hold the control button and reconnect power. See *Hardware Overview, on page 10*.
3. Keep the control button pressed for about 15–30 seconds until the status LED indicator flashes amber.
4. Release the control button. The process is complete when the status LED indicator turns green. The product has been reset to the factory default settings. If no DHCP server is available on the network, the default IP address is `192.168.0.90`
5. Use the tools provided on the Installation and Management Software CD to assign an IP address, set the password and access the video stream. This information is also available from the support pages on *www.axis.com/techsup*
6. Refocus the product.

It is also possible to reset parameters to factory default via the web interface. Go to **Setup > System Options > Maintenance**.

Further Information

The User Manual is available at *www.axis.com*

Visit *www.axis.com/techsup* to check if there is updated firmware available for your network product. To see the currently installed firmware version, go to **Setup > About**.

Visit Axis learning center *www.axis.com/academy* for useful trainings, webinars, tutorials and guides.

Warranty Information

For information about Axis' product warranty and thereto related information, see *www.axis.com/warranty/*

Installation Guide
AXIS Q1614–E Network Camera
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